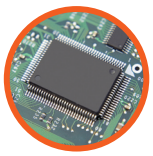
em-trak R100

HIGH PERFORMANCE MARITIME PRODUCTS

AIS Dual Channel Receiver

Improve your safety and have fun on the water with AIS.

The em-trak AIS R100 is the ultimate AIS receiver which offers professional standard AIS receiver capability. Features such as USB power and NMEA0183 interfacing make installation simple.



Performance
The R100 uses **Rmax™** technology to ensure maximum range and AIS message processing.

Easy to install
Multiple interfacing options through NMEA0183 and USB means installation is simple and easy.

USB Power
The R100 can be connected to any PC by a single USB cable which provides both power and data communication.

The em-trak R100 offers professional standard AIS receive performance at a price you can afford.

em-trak
High Performance Maritime Products

www.em-trak.com

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Features and Specifications

- **Rmax™** technology for high performance
- High quality, engineered to last
- NMEA0183
- Small and lightweight
- USB power and data communication

Physical

- Size – 116mm x 115m x 37mm (4.56 x 4.52 x 1.45 inches)
- Weight – 120g

Power

- 12 or 24V DC
- Power consumption 90mA nominal at 12V

Data Interfaces

- USB
- NMEA0183 38.4k baud output (AIS data and multiplex output)
- NMEA0183 4.8k baud input (multiplex input)

Connectors

- 12 pin NMEA0183 and power
- VHF Antenna connector – SO-239
- USB mini-B

VHF Receiver

- Receiver 1 frequency: 161.975 MHz
- Receiver 2 frequency: 162.025 MHz
- Channel bandwidth: 25kHz
- Modulation mode: 25kHz GMSK
- Bit rate 9600 b/s
- RX sensitivity <-107dBm at 20% packet error rate

Supplied with:

- 2m (6.5ft) power and NMEA0183 data cable

1m USB cable

- User manual and quick start guide
- Mounting screws

Product Order Information

- Product Name: em-trak R100
- Product Code: 412-0001

Your em-trak dealer:

The AIS R100 is an aid to navigation and must not be relied upon to provide accurate navigation information. AIS is not a replacement for vigilant human lookouts and other navigation aids such as Radar. The performance of the R100 may be seriously impaired if not installed as instructed in the user manual, or due to other factors such as weather and or nearby transmitting devices. Compatibility with other systems may vary and is reliant on the third party systems recognizing the standard outputs from the R100.

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